

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 13180744		
Frame	: 254/6T	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 109 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.1113 kgm <sup>2</sup>		
Design	: B			
Output [HP]		20		
Poles		4		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		19.8		
L. R. Amperes [A]		132		
LRC [A]		6.7x(Code H)		
No load current [A]		8.89		
Rated speed [RPM]		1765		
Slip [%]		1.94		
Rated torque [kgfm]		8.22		
Locked rotor torque [%]		270		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		28s (cold) 16s (hot)		
Noise level <sup>2</sup>		68.0 dB(A)		
Efficiency (%)	25%	91.0		
	50%	91.7		
	75%	92.4		
	100%	93.0		
Power Factor	25%	0.40		
	50%	0.66		
	75%	0.77		
	100%	0.82		
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 333 kgf		
Lubrication interval	: 20000 h 20000 h	Max. compression : 443 kgf		
Lubricant amount	: 13 g 8 g			
Lubricant type	: Mobil Polyrex EM			
Notes				
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary	Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

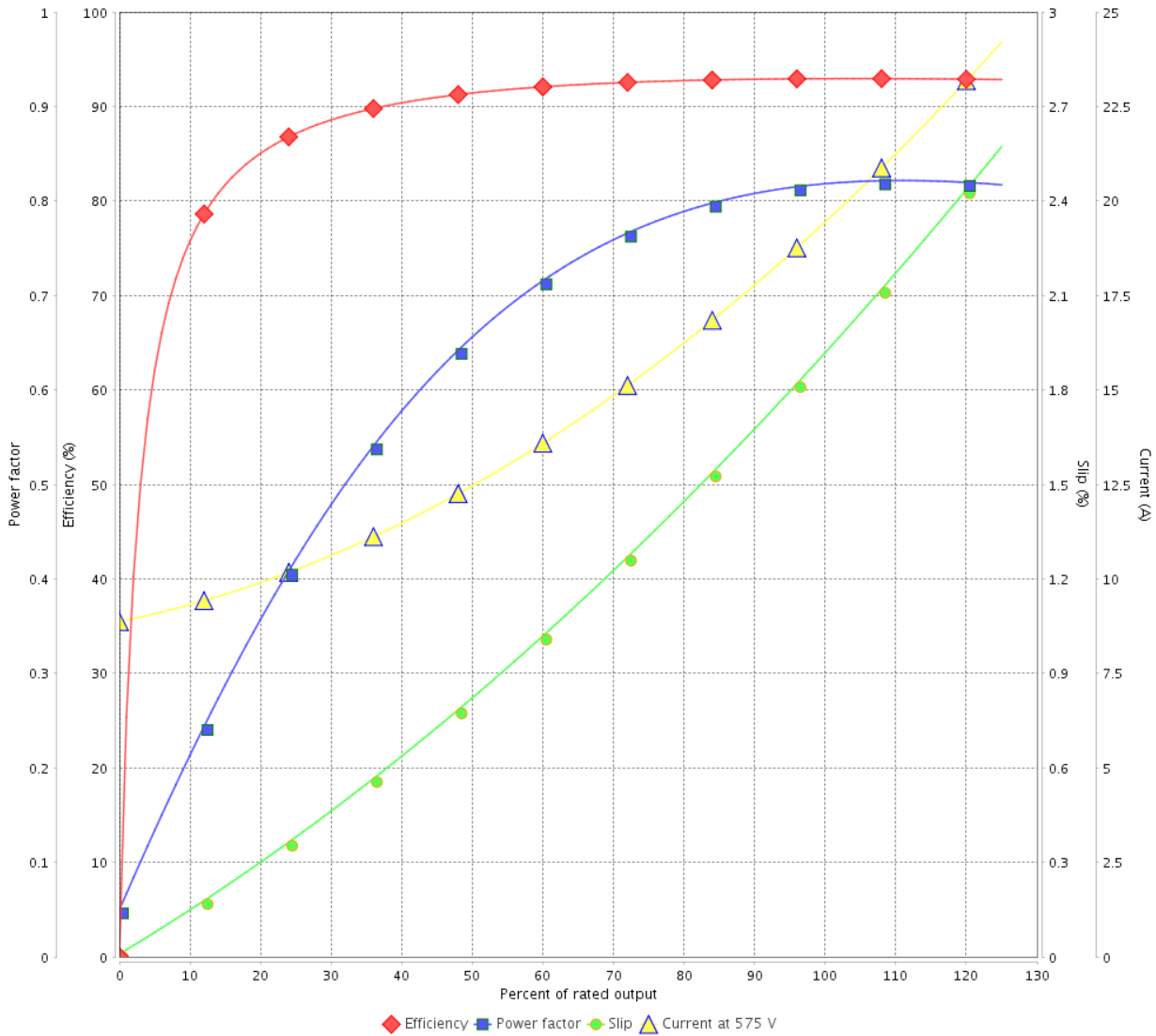
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase      Product code : 13180744

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 19.8 A	Moment of inertia (J)	: 0.1113 kgm <sup>2</sup>
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 8.22 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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